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Serial No.: 10/037,213
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Page: 2 of 13

Attorney's Docket No.: 13292-009001
Client Reference No.: P2002,0776 US E

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A tiedown structure, comprising:

a semiconductor substrate having a chip formed thereon, the chip comprising an electrical device;

a kerf region proximate the chip; and

a conductive connector forming an electrical connection between the chip and the kerf region;

wherein the device is grounded by the conductive connector to prevent charge overloading of the device during a processing step;

wherein the conductive connector comprises at least a conductor line and two metal plugs substantially covered by the conductor line.

2. (Original) The tiedown structure of claim 1, further comprising:

an edge seal along an outer perimeter of the chip,

wherein the conductive connector crosses the edge seal.

3. (Original) The tiedown structure of claim 2, wherein the conductive connector is not in electrical communication with the edge seal.

4. (Currently Amended) The tiedown structure of claim 1, wherein the conductor line of the conductive connector is comprises a metal line and the device is comprises a transistor.

5. (Previously Presented) The tiedown structure of claim 1, wherein the processing step includes plasma etching.

6. (Original) The tiedown structure of claim 5, wherein the conductive connector is in electrical communication with ground potential in the kerf region.

7. (Currently Amended) A tiedown structure comprising:
a semiconductor substrate having a chip formed thereon, the chip comprising an electrical device;
an edge seal along an outer perimeter of the chip; and
a conductive connector forming an electrical connection between the edge seal and the device to ground the device and to prevent charge overloading of the device during a processing step;

wherein the conductive connector comprises at least a conductor line and two metal plugs substantially covered by the conductor line.

8. (Currently Amended) The tiedown structure claim 5, wherein the conductor line of the conductive connector is comprises a metal line and the device is comprises a transistor.

9. (Previously Presented) The tiedown structure of claim 7, wherein the ~~conductive connector is~~ conductor line comprises a metal line and the device is comprises a transistor.

10. (Currently Amended) A method for forming a semiconductor structure, comprising:

forming a device on a chip;

defining a kerf proximate the chip;

forming ~~an electrically~~ [a] conductive connector, the conductive connector connecting the device and the kerf for grounding the device during a ~~subsequent~~ processing step, the conductive connector comprising at least a conductor line and two metal plugs substantially covered by the conductor line;

completing fabrication of the chip including performing the processing step; and

removing an end of the conductive connector from the kerf to reduce thereby ~~preventing~~ short circuits to ground of the device during device operation.

11. (Currently Amended) The method of claim 10, wherein ~~forming a~~ the conductive connector comprises ~~forming~~ a metal line.

12. (Currently Amended) The method of claim 10, wherein the conductive connector ~~connecting the device and the kerf~~ connects the device to ground potential in the kerf.

13. (Previously Presented) The method of claim 10, wherein the processing step includes plasma etching.

14. (Previously Presented) The method of claim 10, wherein removing an end of the conductive connector comprises sawing through the kerf.

15. (Previously Presented) The method of claim 10, wherein removing an end of the conductive connector comprises etching.

16. (Previously Presented) The method of claim 10, wherein removing an end of the conductive connector comprises focused ion beam milling.

17. (Currently Amended) A method for forming a semiconductor structure, comprising:

forming a chip on a semiconductor substrate, the chip including a device;

forming an edge seal along an outer perimeter of the chip;

forming an electrically conductive connector, the conductive connector connecting the edge seal and the device for grounding the device during a processing step, the conductive

connector comprising at least a conductor line and two metal plugs substantially covered by the conductor line;

completing fabrication of the chip including performing the processing step; and
removing a portion of the conductive connector to reduce ~~thereby preventing~~ short circuits to ground during device operation.

18. (Original) The method of claim 17, wherein forming a conductive connector comprises forming a metal line.

19. (Original) The method of claim 17, wherein the conductive connector connecting the edge seal and the device connects the device to ground potential in the edge seal.

20. (Previously Presented) The method of claim 17, wherein the processing step includes plasma etching.

21. (Original) The method of claim 20, wherein removing the portion of the conductive connector comprises removing a portion of the conductive connector between the edge seal and the device.

22. (Original) The method of claim 21, wherein removing the portion of the conductive connector comprises etching.

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Serial No. : 10/037,213
Filed : November 9, 2001
Page : 7 of 13

Attorney's Docket No.: 13292-009001
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23. (Original) The method of claim 21, wherein removing the portion of the
conductive connector comprises focused ion beam milling.